

WHAT IS CLAIMED IS:

Sub  
All  
"SOURCES"

1           1.       A method for thwarting coordinated SYN denial of service (CSDoS)  
2 attacks against a server S disposed in a network of interconnected elements  
3 communicating using the TCP protocol, comprising the steps of  
4           controlling a network switch to divert a predetermined fraction of SYN packets  
5 destined for said server, to a web guard processor,  
6           establishing a first TCP connection between one or more clients originating said  
7 packets and said web guard processor, and a second TCP connection between said web  
8 guard processor and said server, so that packets can be transmitted between said one or  
9 more clients and said server,  
10          monitoring the number of timed-out connections between said web guard server  
11 and said one or more clients,  
12          if the number of timed-out connections between said web guard server and said  
13 one or more clients exceeds a first predetermined threshold, controlling said switch to  
14 divert all SYN packets destined to said server to said web guard processor.

1           2.       The method of claim 1 wherein said process further includes generating an  
2 alarm indicating that said server is likely to be under attack.

1           3.       The method of claim 1 including the further steps of  
2           determining if the number of timed-out connections between said web guard server  
3 and said clients exceeds a second predetermined threshold, and  
4           if so, controlling said switch to delete all SYN packets destined for said server.

1           4.       The method of claim 3 wherein said process further includes generating an  
2 alarm indicating that said server is under attack.

1           5.       The method of claim 1 further including the step of notifying said server  
2 that it is under attack.

